CREB: Key Participants















Wesley Henderson

Kyle Grew

Marshall Schroeder

Jim Short

Chunsheng Wang

Eric Wachsman

Dr. Wesley Henderson - ARL Lead, CREB

Dr. Kyle Grew – Chief, ARL Battery Science Branch

Dr. Marshall Schroeder – ARL Battery Science Branch



Dr. Jim Short – Program Administrator & Principal Investigator (PI), CREB

Prof. Chunsheng Wang – Director, CREB

Prof. Eric Wachsman – Director, Maryland Energy Innovation Institute



The Birth of CREB: Center for Research in Extreme Batteries



bi-annual CREB meeting topics



CREB Organization

CREB Steering Committee

Univ Maryland: Chunsheng Wang (UMD CREB Director) & Eric Wachsman

ARL: Wesley Henderson (ARL CREB Lead) & Kang Xu

ANL: Kahlil Amine

BNL/Stony Brook Univ: Esther Takeuchi

NIST: Joseph Dura & David Jacobson

NY-BEST: William Acker

Binghamton Univ: Stanley Whittingham (Nobel Laureate

in Chemistry, 2019)



Wesley Henderson



Kahlil Amine



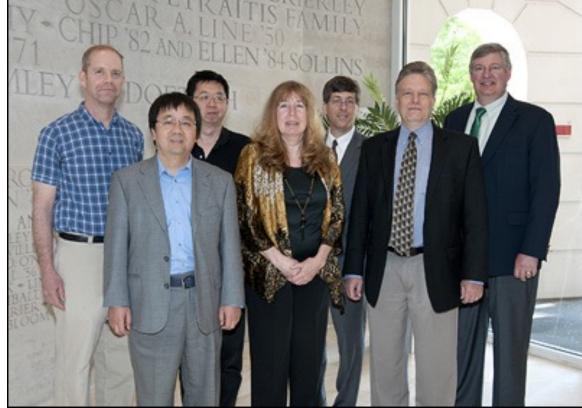
Esther Takeuchi



Stanley Whittingham



Jim Short



CREB Program Administrator
Former Senior Technical Advisor to the Assistant Secretary of Defense for Operational Energy

SES Director of DoD Laboratory Programs, OSD

Weapons Staff Specialist for DDR&E Scientific Officer at ONR



CREB Bi-Annual Meetings

Spring & Fall meetings held each year

Meetings fostering interchange among battery manufacturers, industrial innovators, government acquisition, government laboratory & academic leaders

	Themed Bi-Annual Meetings	No
2022 Spring	Science & Technology Enablers of a Domestic Extreme Battery Supply Chain	125
2021 Fall	Extremely Low Temperature Environments	160
2021 Spring	Extreme Batteries for Intelligence Community Needs	125
2020 Fall	Getting Commercial-Off-The-Shelf (COTS) Cells into DoD Batteries	125
2019 Fall	Space Batteries	90
2019 Spring	Electric Flight Batteries	~75
2018 Fall	Wearable Batteries for Soldiers	60
2018 Spring	Soldier Lethality, Next Generation Combat Vehicle, Future Vertical Lift Batteries	~75
2017	Biomedical Batteries	~75
2016	Munition Batteries	~100



CREB Bi-Annual Meetings

2022 Spring

Science & Technology Enablers of a Domestic

Extreme Battery Supply Chain























2021 Fall

Extremely Low Temperature Environments



T E C H N O L O G I E S



















CREB Bi-Annual Meetings

2021 Spring

Extreme Batteries for Intelligence Community

Needs



Energy Efficiency & Renewable Energy

VEHICLE TECHNOLOGIES OFFICE



Office of the Director of National Intelligence









2020 Fall

Commercializing Battery R&D &

Getting Commercial-Off-The-Shelf (COTS) Cells

into DoD Batteries







Bren-Tronics, Inc.























